

IN THE CLAIMS:

1. (Cancelled)

2. (New) A reproducing apparatus for reproducing information recorded on a recording medium, comprising:

a laser light to irradiate a beam to the recording medium;

a detector to detect an optical change from the recording medium; and

an equalization circuit for executing an equalization processing to a reproducing signal generated by the optical change,

wherein the equalization circuit has a first amplitude regulation circuit, a first delay circuit and an addition circuit adding an output of the first amplitude regulation circuit to an output of the first delay circuit, and a gain of the first amplitude regulation circuit is varying.

3. (New) A reproducing apparatus according to Claim 2, wherein there is a second delay circuit, and the output signal of the second delay circuit is inputted to the first amplitude regulation circuit.

4. (New) A reproducing apparatus according to Claim 2, wherein a large gain is used for a short mark, and the small gain is used for a long mark.

5. (New) A reproducing apparatus for reproducing information recorded on a recording medium, comprising:

a laser light to irradiate a beam to the recording medium;

a detector to detect an optical change from the recording medium; and

an equalization circuit for executing an equalization processing to a reproducing signal generated by the optical change,

wherein the equalization circuit has a plurality of amplitude regulation circuits and a plurality of delay circuits, and at least one of the amplitude regulation circuit executes non-linear equalization.

6. (New) A reproducing apparatus according to Claim 5, wherein a large gain at the amplitude regulation circuit is used for a short mark, and the small gain is used for a long mark in non-linear equalization.